20

WHAT IS CLAIMED:

- 1. A method for developing an Enterprise JavaBean (EJB) component, comprising the steps of:
- (a) analyzing a business domain to determine functional requirements of saidbusiness domain;
 - (b) transforming said functional requirements into an EJB component model; and
 - (c) building an EJB component in accordance with said EJB component model that encompass the business functionality of said business domain.
- The method of claim 1, further comprising the steps of:
 modifying said functional requirements by a user; and
 repeating the steps (b) and (c) to provide a parallel development process.
 - 3. The method of claim 1, wherein said EJB components are extensible and configurable.
 - 4. The method of claim 1, wherein said functional requirements include data and process model of said business domain.
- 15 5. The method of claim 4, wherein said EJB component model encapsulates the data and process model of the said business domain.
 - 6. The method of claim 1, wherein the step of analyzing includes the step of generating a list of inputs, each input identifying a resource that relate to said business domain.
 - 7. The method of claim 6, further comprising the step of generating eFunction matrix from said list of inputs.
 - 8. The method of claim 1, wherein the step of transforming transforms said functional requirements using an unified modeling language (UML) tool to generate said EJB component model.
- 9. The method of claim 8, wherein said EJB component model includes a plurality of EJB classes.
 - 10. The method of claim 9, wherein the step of building builds said EJB component from at least one of the following class stereotypes: Belonging, Session, Entity, Configurable Entity, Business Policy and Workflow.
- 11. The method of claim 1, wherein the step of transforming includes the step of mapping eXtensible Markup Language (XML) to said EJB component model.

10

- 12. The method of claim 1, wherein the step of analyzing includes the step of dividing said business domain into one or more sub-domains and determining functional requirements for each of said sub-domains; and wherein the step of transforming transforms each of said functional requirements for said sub-domains into said EJB component model.
- 5 13. The method of claim 1, wherein the step of building includes the step of generating relational mappings and deployment descriptors.
 - 14. The method of claim 1, wherein the step of building includes the steps of: generating end-user documentation; developing unit tests to test said EJB component; and generating a reference implementation of said EJB component.
 - 15. The method of claim 14, further comprising the step of verifying said end-user documentation to said EJB component.
 - 16. The method of claim 14, further comprising the step of packaging said EJB component for deployment with container managed persistence.
- 15 17. The method of claim 1, wherein said EJB component is a Smart component having at least one of following Smart feature: SmartKey, SmartHandle and SmartValue.
 - 18. The method of claim 16, wherein said Smart component is an eBusiness Smart component.